

Abstract Of The Invention

Method and system for determining the number of one or more of a sequence of  $M+1$  consecutive OFDM frames from analysis of the designated preambles of two or more consecutive frames ( $m = 0, 1, \dots, M; M \geq 1$ ). An overlap function  $OF(m;k)$  is formed for each frame with a sequence of selected reference signals indexed by  $k$  ( $k = 1, 2, \dots, K$ ), dependent upon the frame number  $m$  and the index  $k$ , and a phase (sequence location corresponding to largest amplitude of overlap function) is determined. An  $M$ th-order phase difference is computed that corresponds to frame number of one of the  $M+1$  frames. A consistency check is provided for the phase numbers.

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